

Rubic Hemopoiesis

(Interactive Model for Explaining Hemopoiesis)

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Introduction

Hemopoiesis starts with a common, pluripotent stem cells that can give rise to the separate cell lineages.

It is an interactive model using a Rubic System in various steps of Hemopoiesis

Objectives

- 1.To be able to identify the different types and stages of blood cells
- 2.To understand clearly about hemopoietic system
- 3.To sound as an Educational guide

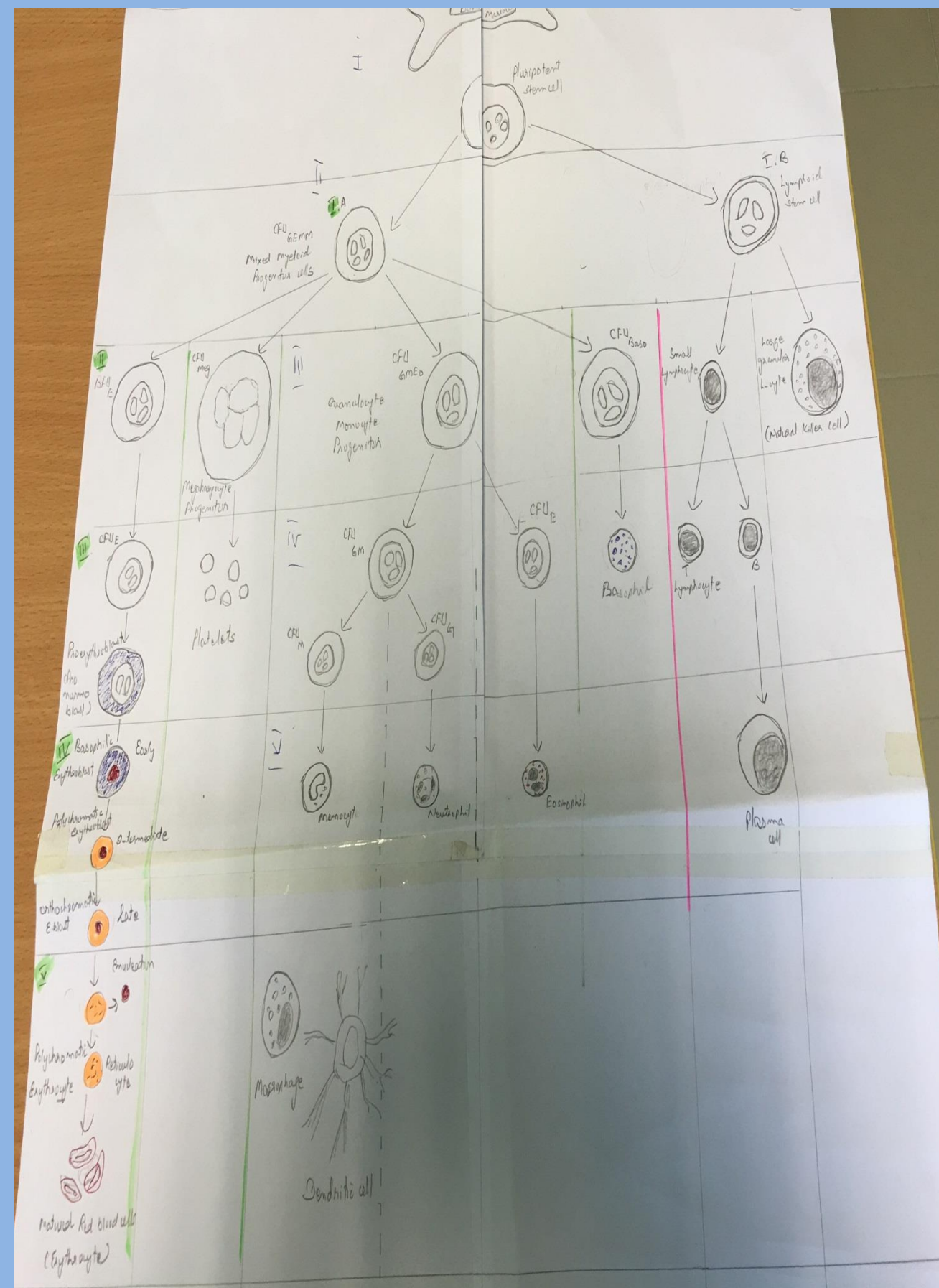


Figure 1
Conventional flow chart Hemopoiesis is confusing with a lot of information.



Figure 2
Innovative Rubic model makes clear, brain-stroming & enheace self study.

Innovation

- * The interactive model assembled as a box, composes a viewer & four stages of Hemopoiesis.
- * Stages and maturation of each cell type can be assessed according to the various colourful background.
- * Our search engine is Rubic Hemopiesis (A classic Rubik's Cube, each of the six faces is covered by nine stickers, each of one of six solid colours: white, red, blue, orange, green, and yellow. They are arranged in that order in a clockwise arrangement. An internal pivot mechanism enables each face to turn independently, thus mixing up the colours).
- * This model Rubic Hemopiesis composes the separated coloured background. The sequence of cell lineages, size and shape of cells, presence or absence of nucleus, nucleous and granules in the cytoplasm can be assessed vividly.

Advantages & applicability

- *Hemopoiesis is very basic step of human biology, essential to be understood the various stages of Hemopoiesis.
- *it is beneficial for extension of students' knowledge and learning process
- *Students can apply the hemopoietic cell types in relation with various diseases.

Commerciality

It will affect positively on students from various institutes studying Biology, Medical, Pharmacy, Nursing, Pre-university and University stages.

Key words

Rubic Hemopoiesis, Interactive Model, coloured background, view box, human biology